Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
11	KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.No-158,I No-20.18)					**136.80**	**Cum**	**1665.26**	**227807.57**
	A sector								
	11th A Cross	1	84.00	0.90	0.225	17.01			
		2	150.00	0.60	0.225	40.50			
	2nd A Main	1	202.00	0.90	0.225	40.91			
		2	140.00	0.60	0.225	37.80			
	13th A Cross	1	173.00	0.90	0.225	35.03			
	12th A Cross	1	100.00	0.90	0.225	20.25			
	3rd A Main	2	120.00	0.70	0.225	37.80			
	4th A Main	1	205.00	0.90	0.225	41.51			
		2	140.00	0.60	0.225	37.80			
						308.61	**Cum**	**1768.08**	**545647.17**
12	KSRRB 500-2. **Cleaning the existing black topped surface** with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 (P.No-161,I No-22.2)								
	A sector								
	11th A Cross	1	220.00	6.70		1474.00			
	2nd A Main	1	202.00	6.70		1353.40			
	13th A Cross	1	173.00	5.20		899.60			
	12th A Cross	1	160.00	5.30		848.00			
	3rd A Main	1	120.00	5.00		600.00			
	4th A Main	1	205.00	5.20		1066.00			
						6241.00	**Sqm**	**3.18**	**19,846.38**
13	KSRRB M500-6.Providing and applying **primer coat** with S.S bitumen emulsion on prepared surface of granular base such as WMM including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per specifications. (P.No-161,I No-21.6)								
	A sector								
	11th A Cross	1	84.00	0.90		75.60			
		2	150.00	0.60		180.00			
	2nd A Main	1	202.00	0.90		181.80			
		2	140.00	0.60		168.00			
	13th A Cross	1	173.00	0.90		155.70			
	12th A Cross	1	100.00	0.90		90.00			
	3rd A Main	2	120.00	0.70		168.00			
	4th A Main	1	205.00	0.90		184.50			
		2	140.00	0.60		168.00			
						1371.60	**Sqm**	**27.56**	**37,801.30**
14	KSRRB 500-7. Providing and applying **tack coat** using 80/100 grade Sqm bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.(P.No-161,I No-21.9) - wmm surface								
	For DBM								
	A sector								

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	11th A Cross	1	84.00	0.90		75.60			
		2	150.00	0.60		180.00			
	2nd A Main	1	202.00	0.90		181.80			
		2	140.00	0.60		168.00			
	13th A Cross	1	173.00	0.90		155.70			
	12th A Cross	1	100.00	0.90		90.00			
	3rd A Main	2	120.00	0.70		168.00			
	4th A Main	1	205.00	0.90		184.50			
		2	140.00	0.60		168.00			
	Profile Correction	10	30.00	3.00		900.00			
	For BC								
	A sector								
	11th A Cross	1	220.00	6.70		1474.00			
	2nd A Main	1	202.00	6.70		1353.40			
	13th A Cross	1	173.00	5.20		899.60			
	12th A Cross	1	160.00	5.30		848.00			
	3rd A Main	1	120.00	5.00		600.00			
	4th A Main	1	205.00	5.20		1066.00			
						8512.60	**Sqm**	**19.08**	**162420.41**
15	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications. MORTH Specification No. 507 using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen. (P.No-163,I No-21.17.6)								
	A sector								
	11th A Cross	1	84.00	0.90	0.05	3.78			
		2	150.00	0.60	0.05	9.00			
	2nd A Main	1	202.00	0.90	0.05	9.09			
		2	140.00	0.60	0.05	8.40			
	13th A Cross	1	173.00	0.90	0.05	7.79			
	12th A Cross	1	100.00	0.90	0.05	4.50			
	3rd A Main	2	120.00	0.70	0.05	8.40			
	4th A Main	1	205.00	0.90	0.05	9.23			
		2	140.00	0.60	0.05	8.40			
	Profile Correction	10	30.00	3.00	0.05	45.00			
						113.58	**Sqm**	**6284.74**	**713820.77**
16	KSRRB M500-19. Providing and laying **bituminous concrete** using crushed aggregates of specified grading, premixed with bituminous binder a and filler, transporting the hot mix to work site, laying with a paver finisher with to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 509 complete in all respects as per specifications. using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 5.4% VG-30 Bitumen(P.No-165,I No-21.22.6)								
	A sector								
	11th A Cross	1	220.00	6.70	0.04	58.96			
	2nd A Main	1	202.00	6.70	0.04	54.14			
	13th A Cross	1	173.00	5.20	0.04	35.98			
	12th A Cross	1	160.00	5.30	0.04	33.92			
	3rd A Main	1	120.00	5.00	0.04	24.00			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	4th A Main	1	205.00	5.20	0.04	42.64			
						249.64	**Cum**	**8013.60**	**2000515.10**
17	KSRRB M800-13.**Road Marking** with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 (P.No-185,I No-24.15)								
	A sector								
	11th A Cross	2.5	220.00	0.10		55.00			
	2nd A Main	2.5	202.00	0.10		50.50			
	13th A Cross	2.5	173.00	0.10		43.25			
	12th A Cross	2.5	160.00	0.10		40.00			
	3rd A Main	2.5	120.00	0.10		30.00			
	4th A Main	2.5	205.00	0.10		51.25			
						270.00	**Sqm**	**542.72**	**146534.40**
18	**Loading and unloading** of stone boulders/stone aggregates/sand/kankar/Moorum including all lead and lift and as per specification and direction of the Engineer in charge of the work.(P.No-134,I No-17.2)								
	From item no. 3					536.40			
	From item no. 9					398.40			
						934.80	**Cum**	**68.00**	**63,566.40**
19	**Cost of haulage** Excluding loading and unloading including all lead and lift and as per specification and direction of the Engineer in charge of the work., 20 Km lead								
	From item no. 3					536.40			
	From item no. 9					398.40			
						934.80	**Cum**	**64.00**	**59,827.20**
								Total Construction Cost	**4999485.45**
								Sub Total	**4999485.45**
								Utility Shifting,Miscellaneous and Rounding off	**514.55**
								GRAND TOTAL	**5000000.00**

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2016-2017, issue rates and Data Rates.

Assistant Engineer
Yelahanka Project Division,
BBMP Bangalore

Asst. Executive Engineer,
Yelahanka Project Division,
BBMP Bangalore

Executive Engineer,
Yelahanka Project Division,
BBMP Bangalore
7/8/17

Excecutive Engineer Yelahanka Project Division
Bruhat Bangalore Mahanagara Palike

Name of Work: Improvements and Asphalting to New Post Office main road and cross roads in Ward No. 01

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
1	**Removing B.S.** slab of Drain and stacking.(P.No-25 I No-5.32)								
	KHB Colony								
	1st Main	2	100.00	0.90		180.00			
	1st Cross	2	20.00	0.75		30.00			
	2nd cross	2	19.00	0.75		28.50			
						238.50	**Sqm**	**65.72**	**15,674.22**
2	**Refixing** stone slabs of drains and pointing in C.M (1:3).(P-25, I.No-5.33)								
	KHB Colony								
	1st Main	2	100.00	0.90		180.00			
	1st Cross	2	20.00	0.75		30.00			
	2nd cross	2	19.00	0.75		28.50			
						238.50			
	Deduct Damaged/missing 10%					23.85			
						214.65	**Sqm**	**80.56**	**17,292.20**
3	KSRRB 300-1. **Earthwork excavation** by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete asper specifications.MORTH / Chapter 3(I No-19.1, P No-142)								
	Desilt								
	KHB Colony								
	1st Main	2	167.50	0.45	0.50	75.38			
	1st Cross	2	47.20	0.45	0.50	21.24			
	2nd cross	2	43.10	0.45	0.50	19.40			
	Debris	3	8.00	2.30	0.30	16.56			
						132.57	**Cum**	**86.92**	**11,522.98**
4	Providing and Fixing **pre cast covering Slab** made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	Missing/ Damaged								
	From item No. 2					23.85			
	KHB Colony								
	1st Main	1	80.00	0.90		72.00			
	1st Cross	1	35.00	0.75		26.25			
	2nd cross	2	30.00	0.75		45.00			
						167.10	**Cum**	**1900.00**	**317490.00**
5	KSRRB M300-14. **Excavation for roadwork** in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1km and complete as per specifications. MORTH Specification No.301 (P.No-143,I No-19.14)								
	KHB Colony								
	1st Main	2	167.50	2.80	0.35	328.30			
	1st Cross	2	47.20	0.80	0.35	26.43			
	Cross road	1	113.00	5.00	0.35	197.75			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	2nd cross	1	43.10	6.60	0.30	85.34			
	Berm cutting								
	1st Main	2	158.00	2.00	0.25	158.00			
	2nd cross	1	43.10	3.00	0.25	32.33			
						828.15	**Cum**	**48.76**	**40,380.35**
6	KSRRB 300-58. **Compaction of original ground** with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 (P.No-149, I No-19.64)								
	KHB Colony								
	1st Main	2	167.50	2.80		938.00			
	Cross road	1	113.00	5.00		565.00			
	2nd cross	1	43.10	6.60		284.46			
						1787.46	**Sqm**	**5.30**	**9,473.54**
7	KSRRB M400-6.1. Construction of **granular sub-base** by providing close graded material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. (P.No-155,I No-20.4.2)								
	KHB Colony								
	1st Main	2	167.50	2.80	0.175	164.15			
	1st Cross	2	47.20	0.80	0.175	13.22			
	Cross road	1	113.00	5.00	0.175	98.88			
	2nd cross	1	43.10	6.60	0.175	49.78			
						326.02	**Cum**	**1665.26**	**542910.56**
8	KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.No-158,I No-20.18)								
	KHB Colony								
	1st Main	2	167.50	2.80	0.225	211.05			
	1st Cross	2	47.20	0.80	0.225	16.99			
	Cross road	1	113.00	5.00	0.225	127.13			
	2nd cross	1	43.10	6.60	0.225	64.00			
						419.17	**Cum**	**1768.08**	**741126.98**
9	KSRRB 500-2. **Cleaning the existing black topped surface** with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 (P.No-161,I No-22.2)								
	KHB Colony								
	1st Main	1	167.50	6.00		1005.00			
	1st Cross	1	47.20	5.00		236.00			
						1241.00	**Sqm**	**3.18**	**3,946.38**
10	KSRRB M500-6.Providing and applying **primer coat** with S.S bitumen emulsion on prepared surface of granular base such as WMM including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per specifications. (P.No-161,I No-21.6)								
	KHB Colony								
	1st Main	2	167.50	2.80		938.00			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	1st Cross	2	47.20	0.80		75.52			
	Cross road	1	113.00	5.00		565.00			
	2nd cross	1	43.10	6.60		284.46			
						1862.98	**Sqm**	**27.56**	**51,343.73**
11	KSRRB 500-7. Providing and applying **tack coat** using 80/100 grade Sqm bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.(P.No-161,I No-21.9) - wmm surface								
	For DBM								
	KHB Colony								
	1st Main	1	167.50	9.40		1574.50			
	1st Cross	2	47.20	0.80		75.52			
	Profile Correction	1	30.00	2.60		78.00			
	Cross road	1	113.00	5.00		565.00			
	2nd cross	1	43.10	6.60		284.46			
	For BC								
	KHB Colony								
	1st Main	1	167.50	9.40		1574.50			
	1st Cross	1	47.20	6.80		320.96			
	Cross road	1	113.00	5.00		565.00			
	2nd cross	1	43.10	6.60		284.46			
						5322.40	**Sqm**	**19.08**	**101551.39**
12	KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-163,I No-21.17.6)								
	KHB Colony								
	1st Main	1	167.50	9.40	0.05	78.73			
	1st Cross	2	47.20	0.80	0.05	3.78			
	Profile Correction	1	30.00	2.60	0.05	3.90			
	Cross road	1	113.00	5.00	0.05	28.25			
	2nd cross	1	43.10	6.60	0.05	14.22			
						128.87	**Cum**	**6284.74**	**809939.58**
13	KSRRB M500-19. Providing and laying **bituminous concrete** using crushed aggregates of specified grading, premixed with bituminous binder a and filler, transporting the hot mix to work site, laying with a paver finisher with to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 509 complete in all respects as per specifications. using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 5.4% VG-30 Bitumen(P.No-165,I No-21.22.6)								
	KHB Colony								
	1st Main	1	167.50	9.40	0.03	47.24			
	1st Cross	1	47.20	6.80	0.03	9.63			
	Cross road	1	113.00	5.00	0.03	16.95			
	2nd cross	1	43.10	6.60	0.03	8.53			
						82.35	**Cum**	**8013.60**	**659900.73**